

Aluminum-killed medium-carbon steel sheet for containers

ABSTRACT OF THE TECHNICAL CONTENT OF THE INVENTION

A process is provided for preparation of an aluminum-killed medium-carbon steel sheet containing by weight from 0.040 to 0.080% of carbon, from 0.35 to 0.50% of manganese, from 0.040 to 0.070 % of aluminum, from 0.004 to 0.006% of nitrogen, the remainder being iron and the inevitable trace impurities, wherein the steel contains carbon in free state, a grain count per mm² greater than 20000 and, in the aged condition, has a percentage elongation A% satisfying the relationship:

$$(640 - R_m)/10 \leq A\% \leq (700 - R_m)/11$$

where R_m is the maximum rupture strength.